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Strom et al.

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(54) **METHODS OF USING CALL FOR SERVICE DATA IN AN ANALYTIC CAPACITY**

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(56) **References Cited**

U.S. PATENT DOCUMENTS

5,889,845 A 3/1999 Staples et al.
9,037,108 B1 * 5/2015 Delatorre H04W 4/90
455/404.1

(Continued)

FOREIGN PATENT DOCUMENTS

KR 20060009070 A 1/2006
KR 20120125092 A 11/2012

OTHER PUBLICATIONS

Form PCT/IB/326 (IPRP Transmittal Notification) dated Sep. 24, 2015 for PCT application No. PCT/US2014/027128.

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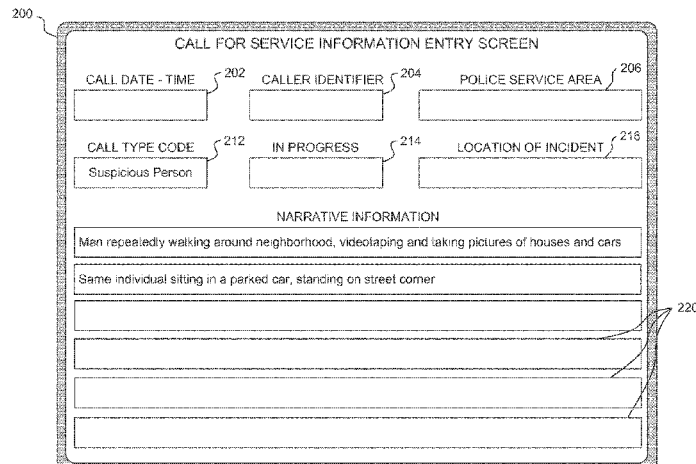
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(57) **ABSTRACT**

Computer-implemented methods and computer-readable media are disclosed for processing call-for-service data to facilitate queries and reports to enhance usefulness of call-for-service data. In one embodiment, a computer-implemented method performable by a computer system includes receiving at a computer system data for a plurality of calls-for-service. Individual data for an individual call-for-service includes one or more fields storing information

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CALL FOR SERVICE INFORMATION ENTRY SCREEN

CALL DATE - TIME 202 CALLER IDENTIFIER 204 POLICE SERVICE AREA 206

CALL TYPE CODE 212 IN PROGRESS 214 LOCATION OF INCIDENT 216

Suspicious Person

NARRATIVE INFORMATION

Men repeatedly walking around neighborhood, videolaping and taking pictures of houses and cars

Same individual sitting in a parked car, standing on street corner

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